**Dissection Requirements**

For each organism you are going to be required to complete each section in a typed/handwritten/organized document.

1. **External Anatomy/Body Structure**

* What type of symmetry is present in each specimen?

- Take a picture of one of the specimens and properly label the

following terms: **anterior, posterior, dorsal, ventral, lateral, head, thorax, abdomen**.

* What is an appendage?
* Discuss the advantages of the appendages in each specimen.
* Discuss the mouthparts of each specimen and how they are able to ingest/chew nutrients. Pay careful attention to a unique adaptation possessed by the starfish.
* What types of sensory receptors are found in each specimen? (How do they see, touch, taste, feel, sense predators/prey, etc.)
* What protects/supports each speciment?

1. **Muscles**

* Define the following vocabulary: **tendon, ligament, origin, insertion, belly (of muscle), abduction, adduction, extension, flexion.**
* Discuss how each of the three specimens is able to move.
* Where do muscles attach to the bone?
* What makes up the tissue that connects the muscle to the bone?
* Take a picture of a major muscle in the fetal pig. Name the muscle, identify its origin and insertion and discuss its function. What muscle in humans is similar to the muscle you chose?

1. **Circulation:**

* How does oxygen get into and out of each specimen? Be specific when naming structures. (spiracle, madreporite, etc.)
* How is oxygen moved through each of their bodies?
* Take a picture of three unique structures, one from each specimen, that aid in circulation, and identify their functions.

1. **Digestive**

* What organs are in the digestive system of each specimen? Discuss their roles.
* Discuss similarities and differences in each of their systems and relate them to the diet of each specimen.
* Take a picture of three unique structures, one from each specimen that is involved in digestion and identify their functions.